

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/BR 03/00113

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 F25B39/02 F28D1/047 F28F1/32

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 F25B F28D F28F F25D F24F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 12, 3 January 2001 (2001-01-03) -& JP 2000 241045 A (YANMAR DIESEL ENGINE CO LTD), 8 September 2000 (2000-09-08) abstract; figures 1-10 -----	1,2
X	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 25, 12 April 2001 (2001-04-12) -& JP 2001 227842 A (SANYO ELECTRIC CO LTD), 24 August 2001 (2001-08-24) abstract; figures 5,6 -----	1,2
X	US 6 272 876 B1 (MICKELSON KEITH R ET AL) 14 August 2001 (2001-08-14) figures 1-6 -----	1,2 -/-

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

### \* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
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- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

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Date of the actual completion of the international search

Date of mailing of the international search report

27 November 2003

04/12/2003

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 1998, no. 08, 30 June 1998 (1998-06-30) & JP 10 073395 A (SAMSUNG ELECTRON CO LTD), 17 March 1998 (1998-03-17) abstract; figures 3a,3b -----	1,2
X	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 11, 3 January 2001 (2001-01-03) & JP 2000 234884 A (KIMURA KOHKI CO LTD), 29 August 2000 (2000-08-29) abstract; figures 1-3 -----	1,2
X	US 5 157 941 A (ANSELMINO JEFFREY J ET AL) 27 October 1992 (1992-10-27) abstract figures 2,3,5 -----	1,2
A	PATENT ABSTRACTS OF JAPAN vol. 2002, no. 07, 3 July 2002 (2002-07-03) & JP 2002 081839 A (MATSUSHITA REFRIG CO LTD), 22 March 2002 (2002-03-22) abstract -----	
A	US 3 267 692 A (PFEIFFER AELRED J ET AL) 23 August 1966 (1966-08-23) -----	

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JP 2001227842	A	24-08-2001	NONE		
US 6272876	B1	14-08-2001	NONE		
JP 10073395	A	17-03-1998	KR CN	210076 B1 1173629 A	15-07-1999 18-02-1998
JP 2000234884	A	29-08-2000	NONE		
US 5157941	A	27-10-1992	NONE		
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